

U.S. Patent Application Serial No. 10/549,669  
Attorney Docket No. 032405R230

**IN THE CLAIMS:**

Please amend claims as follows:

1. (Currently Amended) A property correcting system of an automatic transmission for shift operation by engaging and disengaging frictional engaging elements in a multi-stage transmission unit arranged to a torque converter using a hydraulic control valve, comprising:

means for measuring a controlled variable of the hydraulic control valve relative to a difference between input revolutions of the torque converter and turbine revolutions of the torque converter, in a state that said input revolutions of the torque converter is ~~within a predetermined range~~ set to be constant; and

means for storing an amount of correction based on the controlled variable to an electronic control device for controlling the automatic transmission.

2. (Previously Presented) The property correcting system of the automatic transmission according to claim 1 wherein a shipping of the automatic transmission is determined based on as whether or not the measured value of the controlled variable of the hydraulic control valve is within a preset allowable range.

3. (Previously Presented) The property correcting system of the automatic transmission according to claim 2, wherein the shipping is determined in consideration of the oil temperature of the automatic transmission.

4. (Previously Presented) A property correcting system of an automatic transmission for shift operation by engaging and disengaging frictional engaging elements in a multi-stage transmission unit arranged to a torque converter using a hydraulic control valve, comprising:

means for measuring a controlled variable of the hydraulic control valve for keeping, to be constant, a difference between input revolutions of the torque converter and turbine revolutions of the torque converter under a set condition; and

means for reflecting a differential value between the measured value of the controlled variable of the hydraulic control valve and a reference value to a learning result of learning the property of the automatic transmission.

5. (Previously Presented) A property determining system of an automatic transmission for shift operation by engaging and disengaging frictional engaging elements in a multi-stage transmission unit arranged to a torque converter using a hydraulic control valve, comprising:

means for measuring a controlled variable of the hydraulic control valve for keeping, to be constant, a difference between input revolutions of the torque converter and turbine revolutions of the torque converter in a test driving after assembling the automatic transmission; and

means for determining whether or not the automatic transmission is shipped based on as whether or not the measured value of the controlled variable of the hydraulic control valve is within a preset allowable range.

6. (Previously Presented) The property determining system of the automatic transmission according to claim 5, wherein the shipping is determined in consideration of the oil temperature of the automatic transmission.

7. (Previously Presented) The property correcting system of the automatic transmission according to claim 1, wherein the hydraulic control valve is used for driving one of said frictional engaging elements.

8. (Previously Presented) The property correcting system of the automatic transmission according to claim 1, wherein said means for measuring measures the controlled variable of the hydraulic control in a state that an output shaft of the automatic transmission is installed.

9. (Cancelled).

10. (Previously Presented) The property correcting system of the automatic transmission according to claim 1, wherein measuring said controlled variable is conducted in a state that said automatic transmission is set to a predetermined gear shift position.

11. (Previously Presented) The property correcting system of the automatic transmission according to claim 1, wherein said automatic transmission is installed to a test operation bench and said input revolutions of the torque converter is controlled by said test operation branch.

12. (Previously Presented) A property correcting system of an automatic transmission for shift operation by engaging and disengaging frictional engaging elements in a multi-stage transmission unit arranged to a torque converter using a hydraulic control valve, comprising:

means for measuring a controlled variable of the hydraulic control valve relative to a difference between input revolutions of the torque converter and turbine revolutions of the torque converter; and

means for storing an amount of correction based on the controlled variable to an electronic control device for controlling the automatic transmission, and wherein a shifting of the automatic transmission is determined based on whether or not the measured value of the controlled variable of the hydraulic control valve is within a preset allowable range.

13. (Previously Presented) The property correcting system of the automatic transmission according to claim 12, wherein the shipping is determined in consideration of the oil temperature of the automatic transmission.

14. (Previously Presented) The property correcting system of the automatic transmission according to claim 12, wherein the hydraulic control valve is used for driving one of said frictional engaging elements.

15. (Previously Presented) The property correcting system of the automatic transmission according to claim 12, wherein said means for measuring measures the controlled variable of the hydraulic control in a state that an output shaft of the automatic transmission is installed in a test operation bench.

16. (Previously Presented) The property correcting system of the automatic transmission according to claim 12, wherein said means for measuring that measures the controlled variable of the hydraulic control in a state that said input revolutions of the torque converter is set to be constant.

17. (Previously Presented) The property correcting system of the automatic transmission according to claim 12, wherein measuring said controlled variable is conducted in a state that said automatic transmission is set to predetermined gear shift position.

18. (Previously Presented) The property correcting system of the automatic transmission according to claim 12, wherein said automatic transmission is installed to a test

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operation bench and said input revolutions of the torque converter is controlled by said test operation bench.